

I. GENERAL:

MD 7 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION:

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULL-ACTUATED MODE.

MD 7 THROUGH MOVEMENTS OPERATE CONCURRENTLY. CHESACO AVENUE AND THE SCHOOL BUS DRIVEWAY OPERATE IN SPLIT PHASE. VIDEO CAMERAS AND PROBES PROVIDE DETECTION. NAVIGATOR AUDIBLE PUSHBUTTON PEDESTRIAN ARE PROVIDED TO CROSS THE SOUTH AND EAST LEGS OF THE INTERSECTION. PRE-EMPTION IS TO BE ADDED FOR WESTBOUND MD 7.

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: 410-321-2781-2885

MR. DAVID CREIGHTON
ASSISTANT DISTRICT ENGINEER-CONSTRUCTION
410-321-2821

MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
410-321-2761

MR. MIKE PAQUARILLO
DISTRICT UTILITY ENGINEER
410-321-2841

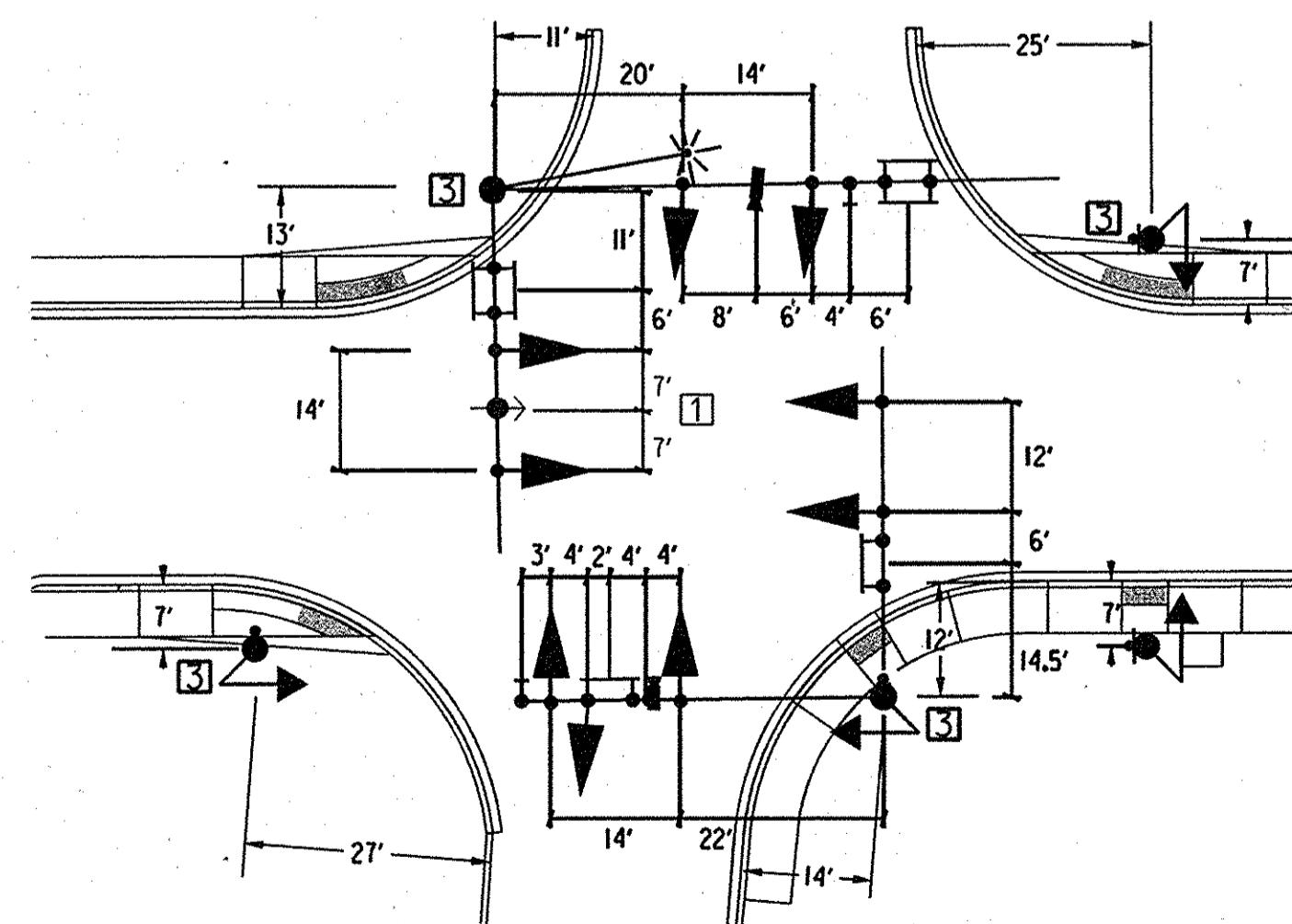
THE CONTACT PERSONS FOR
OFFICE OF TRAFFIC AND SAFETY:

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATION SECTION
PHONE: 410-787-7652

MR. ROBERT SNYDER
ASST. CHIEF, TRAFFIC OPERATION DIVISION
410-787-7631

MR. JAY THAKER
PROJECT MANAGER, TRAFFIC
ENGINEERING DESIGN DIVISION
410-582-5682

DIMENSION DETAIL



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

QUANTITY	DESCRIPTION
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1 EA NEMA EIGHT PHASE, FULL-TRAFFIC-ACTUATED
CONTROLLER WITH VIDEO DETECTION UNIT.
1- FOUR CHANNEL RACK MOUNTED AMPLIFIER
AND ALL NECESSARY EQUIPMENT.

30 SF FLAT SHEET ALUMINUM SIGNS CONSISTING OF:

3 EA	D-3(1) (16" X VAR.) MAST ARM MOUNT
2 EA	R10-11b (24"x24")
4 EA	R10-4(1) MOD (9"x12")

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ON.	CAT. CODE	QTY	UNITS	DESCRIPTION
	203030	3	CY	TEST PIT EXCAVATION
	800000	4	EA	AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON
	800000	1	EA	2 WIRE NAVIGATOR CENTRAL CONTROL UNIT
	800000	8	EA	16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION
	800000	0	EA	DISCONNECT & RELOCATE EXISTING VIDEO DETECTOR CAMERA (
	800000	0	LF	PULL BACK AND INSTALL EXISTING ELECTRICAL CABLE
	801004	14	CY	CONCRETE FOR SIGNAL FOUNDATION
	805125	40	LF	2" SCHEDULE 80 PVC CONDUIT-TRENCHED
	805135	350	LF	3" SCHEDULE 80 PVC CONDUIT-TRENCHED
	805140	75	LF	4" SCHEDULE 80 PVC CONDUIT-TRENCHED
	805150	80	LF	3" SCHEDULE 80 PVC CONDUIT-SLOTTED
	805155	120	LF	4" SCHEDULE 80 PVC CONDUIT-SLOTTED
	807202	1	EA	METERED SERVICE PEDESTAL
	810010	50	LF	ELEC CABLE - 1 CONDUCTOR NO. 4 AWG-THHN/THWN
	810601	2	EA	NON-INVASIVE PROBE WITH 500' LEAD-IN CABLE
	811001	10	EA	FURNISH & INSTALL ELECTRICAL HANDHOLE
	813015	30	SF	INSTALL SHEET ALUMINUM SIGN
	816001	2	EA	VIDEO DETECTOR CAMERA
	816005	2	EA	CONTROL CABLE, 250', VIDEO DETECTOR CAMERA TO CONT.
	816010	0	EA	CONTROL CABLE, 500', VIDEO DETECTOR CAMERA TO CONT.
11	816201	1	EA	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 76
11	816215	1	EA	OPTICOM NO. 721 DETECTOR EYE
	818004	2	EA	10' PEDESTAL POLE
	818021	1	EA	STEEL POLE WITH TWIN 50' MAST ARMS
	818036	0	EA	STEEL POLE WITH SINGLE 50' MAST ARM
	818041	0	EA	STEEL POLE WITH SINGLE 60' MAST ARM
	818050	1	EA	STEEL POLE WITH TWIN 50' AND 60' MAST ARMS
	818052	0	EA	STEEL POLE WITH SINGLE 70' MAST ARM
	821003	2	EA	BREAKAWAY BASE SUPPORT SYSTEM FOR SIGNAL STRUCTURE
	831010	1	EA	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
	832020	400	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
	837001	6	EA	GROUND ROD (3/4" DIA X 10' LENGTH)
	860270	3	EA	8" LED SIGNAL HEAD SECTION
	860272	27	EA	12" LED SIGNAL HEAD SECTION
11	860288	80	LF	FURNISH AND INSTALL 4 CONDUCTOR OPTICOM CABLE
11	860292	5	EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
	861105	440	LF	ELECTRICAL CABLE 2 - CONDUCTOR NO. 14 AWG
	861107	520	LF	ELECTRICAL CABLE 5 - CONDUCTOR NO. 14 AWG
	861108	1020	LF	ELECTRICAL CABLE 7 - CONDUCTOR NO. 14 AWG
	861116	80	LF	ELECTRICAL CABLE 2 - CONDUCTOR NO. 12 AWG TRAY CABLE
	866104	1	EA	20' LIGHTING ARM ON SIGNAL STRUCTURE
	871202	1	EA	INSTALL CONTROLLER AND CABINET-BASE MOUNT
	873001	0	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT

EQUIPMENT LIST "C"

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILLIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING KEY

A B C D E	}	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)	S	}	2 CONDUCTOR #12 TRAY CABLE			
F G H J K L M N		5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)	W X		}	NON-INVASIVE PROBE		
O P Q R		2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)	Y			}	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE	
a		VIDEO DETECTION CABLE WITH 250' LEAD IN	Z				}	(3-WIRES) 1 CONDUCTOR ELECTRICAL CABLE NO. 4 AWG
b		}	PS					}
c	4 CONDUCTOR FOR OPTICOM		PPD	}				
			+		}			
			M			}		

PHASE CHART

1 2 3 4 5 6 7 8 9 10 11 12 13

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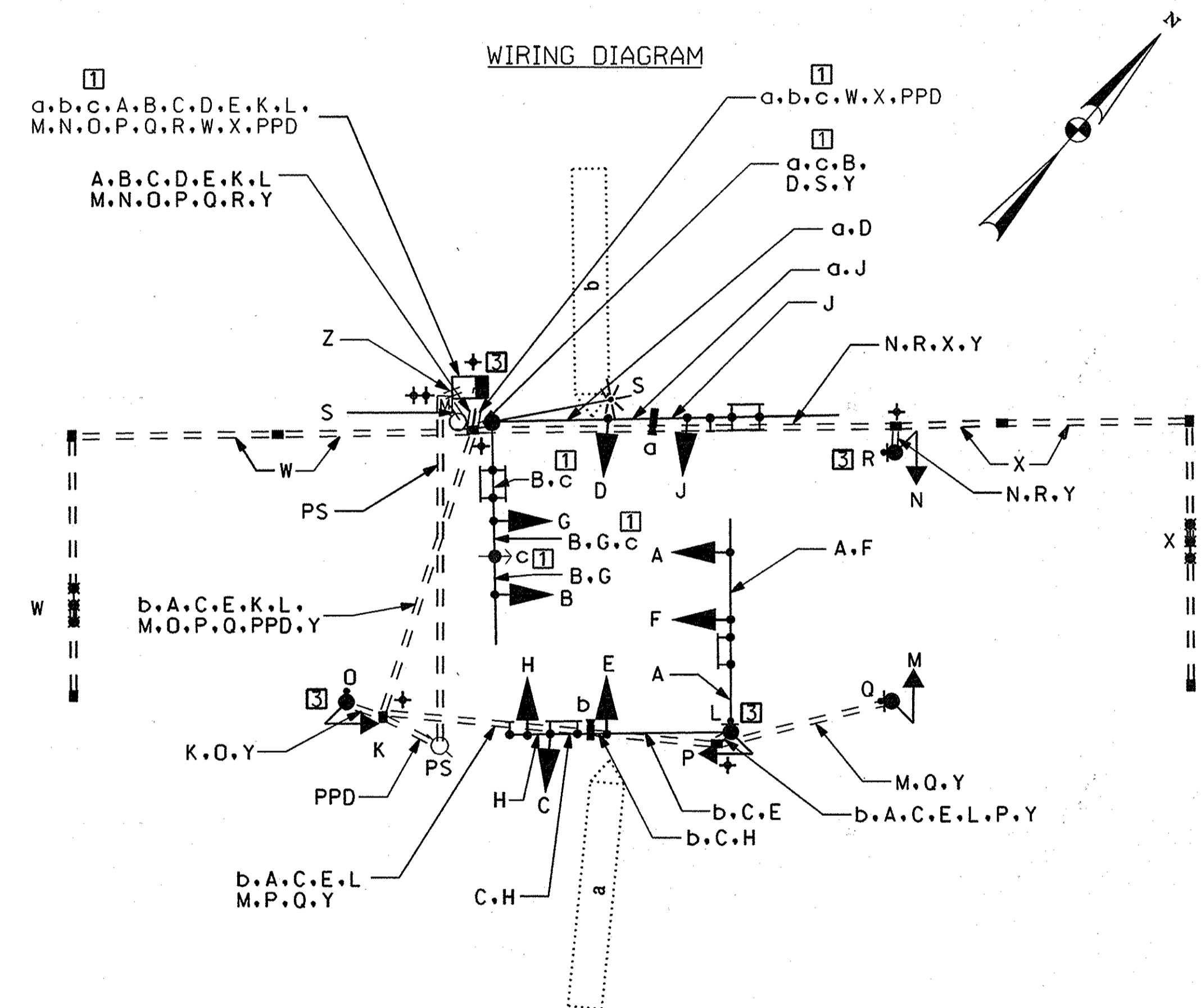
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	PHASE 2 AND 6	G	G	G	G	R	R	R	R	R	WK	WK	DW	DW	
	PED CLEARANCE	G	G	G	G	R	R	R	R	R	FLDW	FLDW	DW	DW	
	2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW	
	PHASE 3	R	R	R	R			R	R	R	DW	DW	DW	DW	
	PHASE 3 CHANGE	R	R	R	R			R	R	R	DW	DW	DW	DW	
	PHASE 3 ALT	R	R	R	R			R	R	R	DW	DW	WK	WK	
	PED CLEARANCE	R	R	R	R			R	R	R	DW	DW	FLDW	FLDW	
	PHASE 3 ALT CHANGE	R	R	R	R	Y	Y	R	R	R	DW	DW	DW	DW	
	PHASE 4	R	R	R	R	R	R	R		G	DW	DW	DW	DW	
	PHASE 4 CHANGE	R	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW	
	FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	
1	FIREHOUSE PRE-EMPTION	R	R	G	G	R	R	R	R	R	DW	DW	DW	DW	
1	PRE-EMPTION CHANGE	R	R	Y	Y	R	R	R	R	R	DW	DW	DW	DW	

WIRING DIAGRAM



SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 7 (PHILADELPHIA RD)
AND CHESACO AVE

GENERAL INFORMATION SHEET

SCALE 1" = 20' DATE 10-11-06 CONTRACT NO. BA6885185

DESIGNED BY AJM COUNTY BALTIMORE
DRAWN BY SW LOGMILE 030007000.95
CHECKED BY PAT T.I.M.S. NO. F189
F.A.P. NO. _____ TOD NO. _____

DRAWING NO. TS-1157C	SG-4 OF 9	SHEET NO. 165 OF 165
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REVISIONS


2 *2nd* *10-1-08*

☒ GREEN LINE NO. 3.
TRAFFIC
REPLACE SHEET NO. 165
DATE: OCTOBER 6, 2008

☐ GREEN LINE NO. 1.
TRAFFIC
REPLACE SHEET NO. 165
DATE: MAY 29, 2008

PLOTTED: \$OATETIMES\$
FILE: \$FILES\$

BY: \$USERNAME\$



CENTURY
ENGINEERING

CONSULTING ENGINEERS - PLANNERS
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HUNT VALLEY, MD 21031



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